

# SERVICE MESH

```
<div className="App">
  <header className="App-head
    <img src={logo} className="
  <p>
    Edit <code>src/App.js</code>
  </p>
  <a
    className="App-link" import
    href="https://reactjs.org" import
    target="_blank"
    rel="noopener noreferrer"
  >
    Learn React
  </a>
</header>
</div>
```



@CertificaTIC



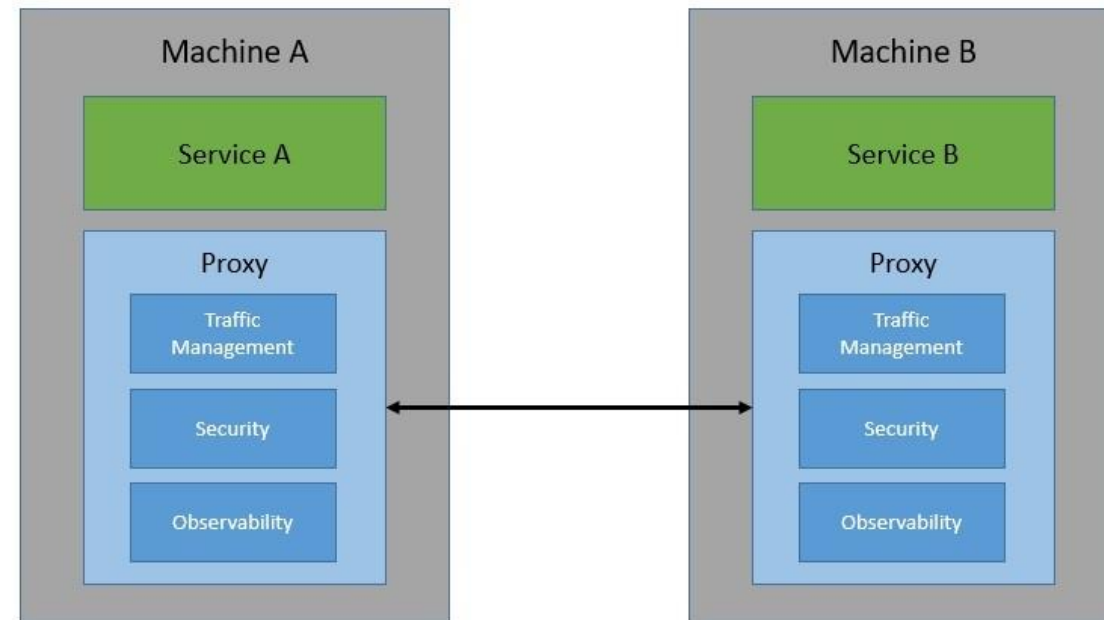
/CertificaTIC



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# SERVICE MESH

- Complementa una solución basada en microservicios
- Side Car
- Comunicación entre servicios flexible, confiable y segura
- Network mesh
- Traffic management
- Security
- Observability



# TRAFFIC MANAGEMENT

- Discovery
- Load balancing
- Routing
- Retries
- Timeouts
- Rate limiting
- Circuit breakers
- Traffic splitting

# SECURITY

- Traffic encryption
- Certificate validation
- Authorization
- Authentication



# OBSERVABILITY

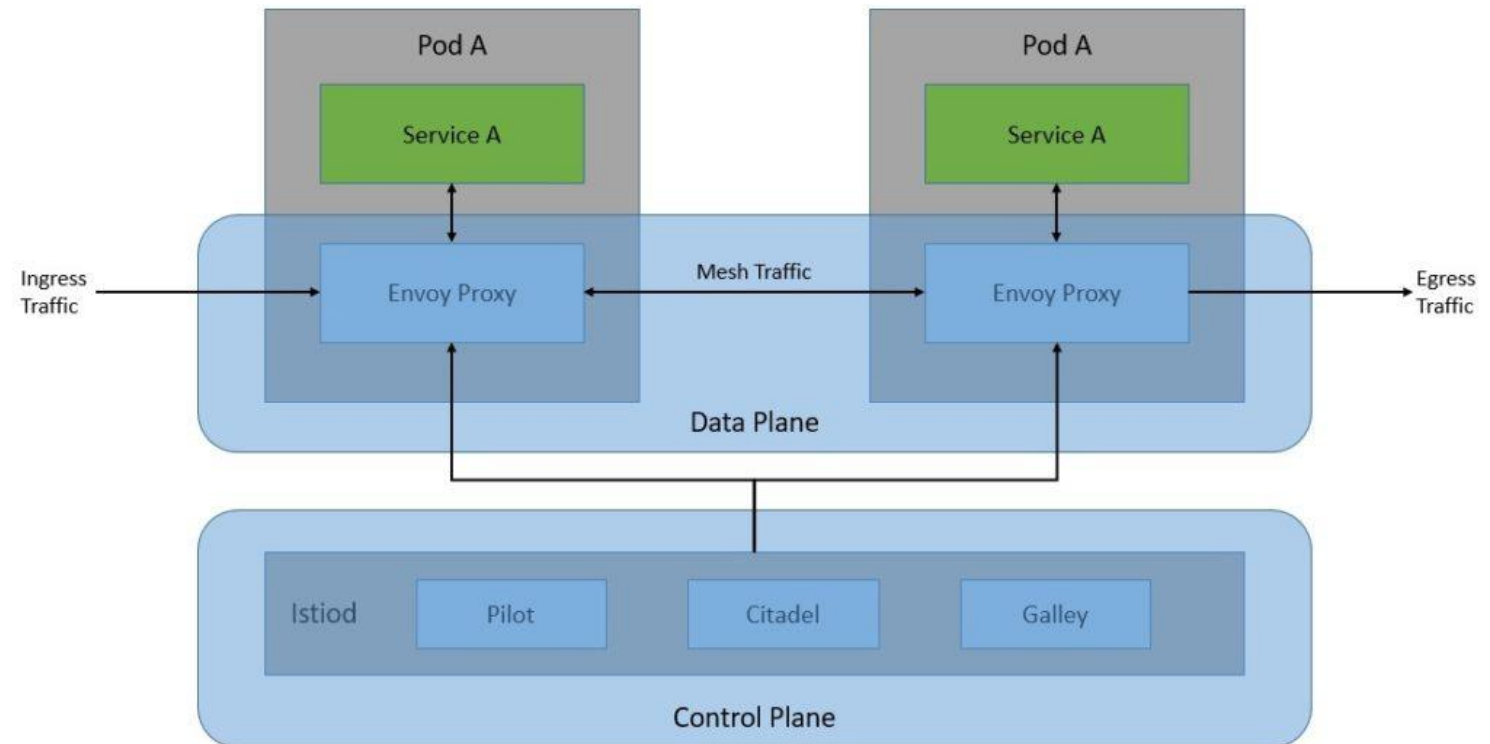
- Metrics:
  - Latency
  - Traffic
  - Errors
  - Saturation

# ISTIO

- Service Mesh implementation
- Open source
- Developed originally by IBM Google & Lyft
- Flexible
- Platform neutral
  - Cloud
  - On premise
  - On Kubernetes \*

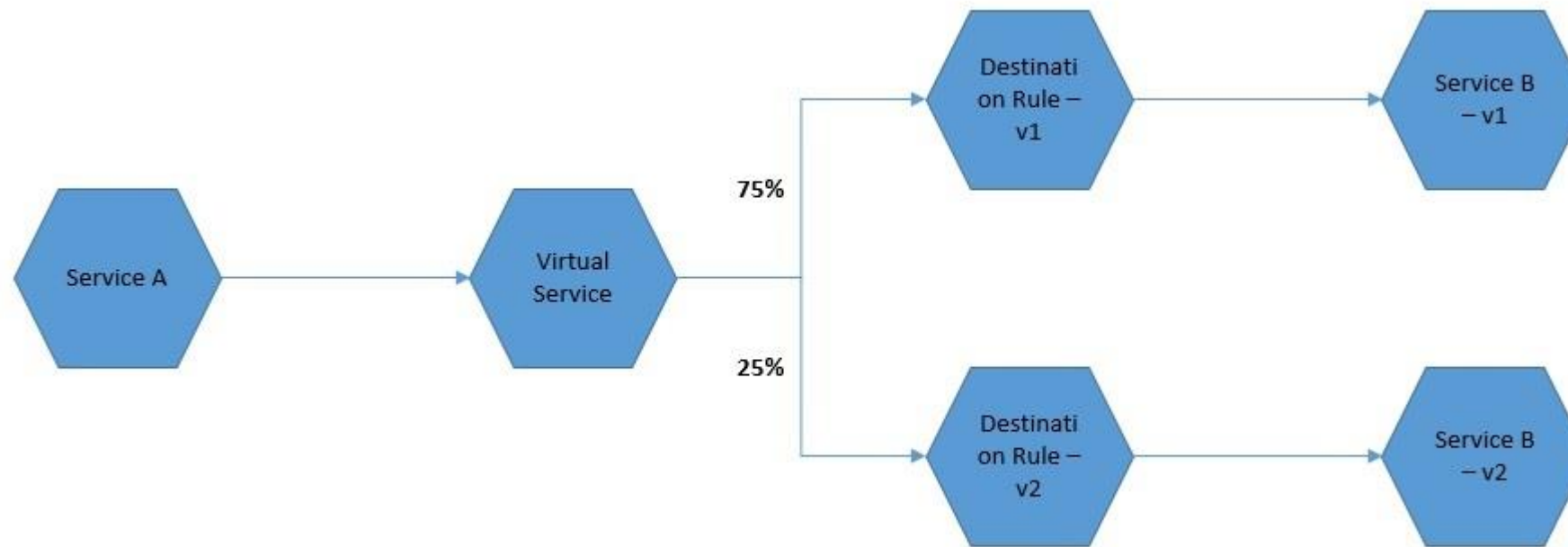
# ISTIO

- Data Plane
  - Envoy proxies Sidecar
    - Traffic Control
    - Network resiliency
    - Security
- Control plane
  - Discovery
  - Cert Management
  - Proxies configuration



# ISTIO

- Traffic management







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